Vanlerberghe, Daren

From: Hughes, Matt [mhughes@WM.COM]
Sent: Tuesday, July 15, 2014 6:06 AM

To: Vanlerberghe, Daren

Cc: Connolly, James; Gosine, Jairaj; Lucier, Eric; Grady, Mark

Subject: Wheelabrator Saugus

Attachments: DOC.PDF; RE: Wheelabrator Saugus COC for Wastewater sampling

Daren:

Additional follow up from your site visit last month. One of your suggestions was that we should add a 3rd point check to the calibration procedure for the sewer discharge pH probe calibration. We have revised the procedure to include a check at pH 7, in addition to 4 and 10. The attached PDF file lays out the revised procedure.

I have also looked into the questions you had on sewer discharge monitoring for oil and grease. There was a question of how the sample are collected, and specific to the 2011 samples, the question of the samples being placed in plastic instead of glass containers. The attached email contains a clarification memo from the sampling contractor. They indicate that amber glass containers are always used, and the sample preserved with HCL. They also clarify that these samples are taken direct to the sample container from the sampling point.

I have also conveyed the request to list each sample container on a separate line on the COC, this would prevent confusion as far as samples and sample containers being used.

If you have any questions, please let me know.

Thanks.

Matt Hughes

Regional Environmental Manager-MA/NH

Wheelabrator Technologies A Waste Management Company 4 Liberty Lane West Hampton, NH Tel 603 929 3328 Cell 603 303 0721

www.wheelabratortechnologies.com Twitter @WM_WTI

Description M Calibration Sewer pH Probe

Equipment 22-201 Instrumentation and Controls

Wo Type PM-Master Plan

Supervisor

Work Class PM

Requested Completion

Status Approved

Priority 3

Criticality 2

Assigned To

2nd Assigned

Department Electrical and Instrumer

Entered By Cuttle, Jack

Entered Date 2/24/2003 11:56:04:795

Requestor Cuttle, Jack

Approver

Budgeted Cost \$0.00

Total Planned \$0.00

Cost Center Wastewater System

System Instrumentation and Controls

Budget Class Routine R&M

Account 720,521000

Equipment 22-201 Instrumentation and Controls

Serial #

Equip. Specs

Train Common

Environmental

X O

Safety [

Location

Comments Perform a two point calibration fo the sewer water PH probe and perform a 3rd point check.

Resources

Resource	Occurrence	Workers	Planned Hours	Actual Hours	Remaining Hours
E&I	1	1	1	0	1
		Total Hours		0	1

Documents

Work Order

Document Id 7/11/2014-548 **Document Type Adobe Acrobat**

Description Cal Sheet pH

"Sti6Nage®E5Cation O:\Record Storage\Saugus\Æ&b

۩akibration

Page 2 of 20

Wheelabrator Saugus, Inc. Saugus, Inc.

Equipment 22-201

Work Order Instructions

Department: Electrical Maintenance

Safety Procedures: LOTO and Safe Work Procedures

Sewer PH 2-point Calibration and 3rd point check

Procedure:

- 1. Notify control room to place sewer Ph in calibration mode (Lamella screen graphic 92)
- 2. Confirm that the pH input has a slope between 51 and 62 mV/pH. If outside this range, probe must be changed
- 3. Pull pH probe, wipe probe down with a clean rag(If sensor is left dry for a few hours, it will be damaged)
- 4. Submerge probe in safe acid for atleast one minute, then purge probe with water
- 5. Fill 3 cups, one with pH 4, one with pH 7 and the other with pH 10
- 6. CALIBRATION SET UP: Initializing Calibration-
- 6.1 Press EXAM/CANCEL key to place display in "examination" mode and to indicate pH "cal value"
- 6.2 Press Next key until display indicates "Buffer Cal"
- 6.3 Press <--- key to make display indicate "2pt."
- 6.4 Press ENTER key until display indicates "LO BUFFER VALUE"
- 6.5 Press NEXT key once to make display indicate "HI BUFFER VALUE"
- 6.6 Use arrow keys to make display 4.00 if value is not already 4.00, then press ENTER
- 6.7 Press NEXT key once to make display indicate "hi buffer value"
- 6.8 Use arrow key to mkae display 10.00 if value is not already 10.00, then press ENTER
- 6.9 Press EXAM/CANCEL key to return display to pH measureing mode
- 7. CALIBRATION: Two-point Calibration with 3rd point check-
- 7.1 Place clean sensor in the pH 4 value buffer
- 7.2 Press BEGIN CAL key
- 7.3 When the pH and the deg F indicators are both on (not flashing), press END CAL button
- 7.4 Remove sensor from the pH 4 value buffer. Rinse sensor in clean water and place in the 10 pH value buffer
- 7.5 Press BEGIN CAL key
- 7.6 When the pH and deg F indicators are both on (not flashing), press END CAL button.
- 7.7 Remove sensor from the pH 10 value buffer. Rinse sensor in clean water.
- 7.8 Place the sensor in the pH 7 value buffer and record the result
- 8. When calibration is complete notify control room to remove sewer Ph from calibration mode (Lamella screen graphic 92)

Vanlerberghe, Daren

From: Kenneth Boivin [kenneth.boivin@gza.com]

Sent: Monday, July 14, 2014 3:22 PM

To: Hughes, Matt Cc: Ronald Breton

Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Attachments: Wheelabrator071414.pdf

Hi Matt:

Attached is the letter requested from ESS documenting that the containers used for oil and grease sampling in 2011 were glass and not plastic.

I apologize for the delay in getting this to you. I had hoped to have it available last week.

Please let me know if you need additional information.

Regards,

Ken

Kenneth Boivin, CHMM
Associate Principal
GZA GeoEnvironmental, Inc.
5 Commerce Park North, Suite 201
Bedford, New Hampshire 03110
p: 603.232.8719

f: 603.624.9463 c: 603.566.9784

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----Original Message----

From: Hughes, Matt [mailto:mhughes@WM.COM]

Sent: Monday, July 14, 2014 2:18 PM

To: Kenneth Boivin Cc: Ronald Breton

Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

OK. Thanks.

----Original Message----

From: Kenneth Boivin [mailto:kenneth.boivin@gza.com]

Sent: Monday, July 14, 2014 14:11

To: Hughes, Matt Cc: Ronald Breton

Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Hi Matt:

ESS will have a memo out to us tomorrow. We had expected it from them last week.

1 NEICVP1083E01 Appendix H Page 4 of 20

Thanks,

Ken

Kenneth Boivin, CHMM Associate Principal GZA GeoEnvironmental, Inc. 5 Commerce Park North, Suite 201 Bedford, New Hampshire 03110

p: 603.232.8719 f: 603.624.9463 c: 603.566.9784

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----Original Message----

From: Hughes, Matt [mailto:mhughes@WM.COM]

Sent: Monday, July 14, 2014 1:31 PM

To: Kenneth Boivin Cc: Ronald Breton

Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Ken:

Any update on my request from last week?

Thanks.

----Original Message----

From: Hughes, Matt

Sent: Wednesday, July 09, 2014 9:09

To: 'Kenneth Boivin' Cc: Ronald Breton

Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

How about a memo from ESS referencing the 2011 testing that corrects and the error on the COCs?.

----Original Message-----

From: Kenneth Boivin [mailto:kenneth.boivin@gza.com]

Sent: Tuesday, July 08, 2014 18:02

To: Hughes, Matt Cc: Ronald Breton

Subject: RE: Wheelabrator Saugus COC for Wastewater sampling

Hi Matt:

The individual who did the sampling has confirmed that the 2011 FOG samples were taken directly in glass containers as per the standard practice. 'P' was listed on the COC in error. Do you need a corrected document or some other documentation from ESS?

Thanks,

Kenneth Boivin, CHMM Associate Principal GZA GeoEnvironmental, Inc. 380 Harvey Road Manchester, New Hampshire 03103

p: 603.232.8719 f: 603.624.9463 c: 603.566.9784

Exciting News! GZA's Manchester office will be moving on Friday July 11, 2014 to our new address at 5 Commerce Park North, Bedford, New Hampshire 03110. All other contact information will remain the same.

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----Original Message----

From: Hughes, Matt [mailto:mhughes@WM.COM]

Sent: Tuesday, July 01, 2014 9:11 AM To: Kenneth Boivin; Ronald Breton

Subject: Wheelabrator Saugus COC for Wastewater sampling

I will call to discuss, but to summarize. We just went through a Clean Water Act inspection with EPA that started late last week and concluded yesterday. One of their suggestions is to break out the different test parameters when we are using different containers and preservations methods. See the sample I circled in the attached. This one should be two lines, one for the field pH and temp in the 125 ml plastic container. The other in the 1 liter glass for O&G.

The other item for O&G is that we need to have assurance that ESS is taking the grab for O&G direct to the glass container. They cannot be collecting a sample meant for O&G into plastic, then transferring to glass. Not sure if the best way to memorialize this is in the sampling procedure, or include a statement on the COC.

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July 14, 2014

Kenneth Boivin GZA GeoEnvironmental, Inc 380 Harvey Road Manchester, New Hampshire 03103

RE: Wheelabrator Oil & Grease

Dear Kenneth Boivin:

We have reviewed the reports you had attached and researched The Oil & Grease samples on October 18 and October 20, 2011. The original chains receiving the samples into the Hopkinton Laboratory stated that the Oil & Grease samples had been sampled in plastic bottles. This is not the standard practice of the field samplers. All Oil & Grease samples are taken in one liter amber bottles and preserved with hydrochloric acid (HCl).

When looking further into each report, there is a second chain sending the samples to ESS Laboratory in Cranston, RI. These chains are attached and state that Oil & Grease samples were sent to ESS Laboratory in glass bottles preserved with HCl.

The final check is on the cooler receipt checklist at ESS Laboratory. Samples were received in one liter glass bottles, preserved with HCl, and bar-coded as such. See attached form.

We hope this information will help you resolve the issue of the bottles. If you have any further questions, please do not hesitate to contact me.

Sincerely

Laurel Stoddard Laboratory Director

1110-00097 (for lab use only) ESS LABS 1110282 WO. CHAIN-OF-CUSTODY RECORD

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	Marrix A=Air S=Soil GW=Ground W. VW=Waste W. DW=Dricking W. P=Product (specify)	WW													(, O-Other) *	RECEIVED BY: A CEIVED BY: RECEIVED BY:		[;	/	,
	Date/Time Sampled	10/17/11 @ 0830													RESERVATIVE (CI-HCI, M-Methand, N-HNO3, S-H2SO4, Na-NaOH, O-Osher)	NATERTINE ATERTIME ATERTIME ATERTIME ATERTIME ATERTIME	Michelle Mirenda	GZA GEOENVIRONMENTAL; INC.	Hopkinton, MA 01748 508-435-9244	EAX 608 435-9912
	Sample 1.D.	Outfall 001-10-17-11-Grab-1													RESERVATIVE (CI-HCI, M-Med	CONTAINER TYPE (P-Plastic, GG ELINQUISHED BY: A. M.	Project Manager:	GZĀZ		N

C.Wierwigalinde/Deskrop/RIAL COCAVIT. Semi-Ann. RIAL COC. alax

(©

Client: GZA GeoEnvironmental, Inc.

Client Project ID: _____ Shipped/Delivered Via:

ESS Courier

ESS Project ID: 11100282
Date Project Due: 10/25/11
Days For Project: 4 Day

Campio Italiasi Tiopanji Tiosan		Glass 2 HCL	_
Who was called?: Sample Number Properly Preserve		By whom?	
W/h == = = H = d > .		By whom?	
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	·		
8. Was there need to call project manage	er to disc	/	
. Is COC complete and correct?	Yes	Analysis:	
. Does the COC match the sample	Yes	Analysis:	
. Was COC included with samples Was COC signed and dated by client?	Yes	Sub Lab:	
. Was COC included with samples?	Yes	ESS Sample IDs:	_
Iced With: Icepacks		17. Were samples received intact?	Yes No
Cooler Temp: 3.2	<u></u>	16. Are ESS labels on correct containers?	Yes No
. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
Air No.:		11. Proper sample containers used?	Yes
Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	

ESS LABS \\\\\ \S30

(for lab use only) 1110-00099

W.O.#

Note # Temp Blank Total No. of Cont. Cooler Air вор 4 × 3 _ SS1 . × ប FOG-1664 O ç LAB USE: TEMP. OF COOLER EPA 300 EI CI II NO3 EI SO4 SPLP - Specify Below P.O. NO. CLP - Specify Below Fall Semi-Annual Monitoring (wolse (List Below) SHEET NCP 14 Metals (MA) Saugus, MA 8-X 🗆 51-M44 🗆 18-8 3 VPH (MA DEP) NOTES; (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C) *Specity *Other* preservatives and container types in this space. ESH (MY DES) TPH-GC WFING. Approved by: TPH-GC (Mod. \$100) ##4-1808 ¥43 TASK NO: Report Method Blank and Laboratory Control Sample Results ELV 8087-5CB* ELV 932 MM 2AOCT NE DA D HAY DOTES AGE EPA 8270 SVOC C 901 C 903 MM AOC 04.0029242.00 TURNAROUND TIME: Standard Hush ELY 934 MM AOCIMMEY ELA S24.2 DW VOC5 EPA 8021- 8020 List (BTEX) (Chier.) #12 0108 -1208 A93 1208 A921- Full List COLLECTOR(S) GZA FILE NO: 14 8260-8010 List LOCATION PROJECT 0978 A.G C Methane, Ethane, Ethens Hq 🖸 15:41 Kelteres A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. P=Product (specify) WW * Matrix PRESERVATIVE (CI-HCI, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other) GZA GEOEWHRONIMENTAL INC. ONTAINER TYPE (P.Plasik, G-Glass, V-Vial, T-Tellon, O-Other) 106 South Street Hopkinton, MA 01748 508-435-8244 FAX 508-435-9912 Michelle Mirenda 10/18/11 @ 0830 10/18/11 @ 0830 Date/Time Sampled CHAIN-OF-CUSTODY RECORD 08.41 1430 Project Manager. Ourfall 001-10-17-11-Comp-1 Octal 001-10-15-11-Crab-2 3 Sample

Page 9 of 9

C. Userrigalindo Deskap VIAL COCANH, Semi-Ara: RIAL COCAKA

Client: GZA GeoEnvironmental, Inc.

Client Project ID: _____ Shipped/Delivered Via:

/ia: ESS Courier

ESS Project ID: 11100280
Date Project Due: 10/25/11
Days For Project: 4 Day

. Air Bill Manifest Present?	* No	10. Are the	samples properly	preserved:	Yes					
Air No.:		11. Proper	sample container	s used?	Yes					
. Were Custody Seals Present?	No	12. Any air	bubbles in the V	OA vials?	N/A					
. Were Custody Seals Intact?	N/A	13. Holding	times exceeded	?	No					
. Is Radiation count < 100 CPM?	Yes	14. Sufficie	nt sample volum	es?	Yes					
. Is a cooler present?	Yes	15. Any Su	bcontracting nee	ded?	No					
Cooler Temp: 3.2		16. Are ES	S labels on correc	t containers?)					
Iced With: Icepacks		17. Were s	amples received	intact?	Yes No					
5. Was COC included with samples?	Yes	ESS Sampl	e IDs:							
7. Was COC signed and dated by client	? Yes	Sub Lab: _								
3. Does the COC match the sample	Yes	Analysis: _	Sub Lab:							
9. Is COC complete and correct?	Yes	TAT:	<u> </u>							
18. Was there need to call project man Who was called?:			f yes, please expl							
		<u> </u>	# of Containers							
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1 Yes Yes		1 L Plastic	2	NP						
Completed By:	-	e/Time: <u>10/</u> /	10/11							
Reviewed By:	Date	e/Time:	<u> </u>							

ESS LABS 11115346

(for tob use only)

1110-00109

W.O. #

Note # Total No. Temp Blank Cooler Air Capter Total 3, 3°C 'n COS × \$51 × ರ೮ ö EOC-1994 TEMP. OF COOLER **300 € 00 € 00 € 00** PPLP - Specify Below P.O. NO. CFL - Specify Below LAB USE: Fall Semi-Annual Monitoring (etals (List Below) SHEET NCP 14 Metals (MA.) Saugus, MA 8-X 🗆 E1-M44 🗀 alaxis 3 /PH (MA DEP) NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C) *Specity *Other* preservatives and container types in this space. TH (MY DES) PH-GC wring. Approved by: PH-GC (Mod. 8100) PA 8081-Pest TASK NO: Report Method Blank and Laboratory Control Sample Results PA 8082-PCBs EN ess MM 2AOCE NE D V D HV4 D 04Z8 Y43 4 days TURNAROUND TIME Standard -Rush 109 D 003 MM AOCT 04.0029242.00 EBY 624 KM AOCEMINEY EBY 254'S DM AOCE PA 8021-8020 Lin (BTEX) EPA 8021-8010 List (Chlor.) E5Y 8033- Enll F:≪ COLLECTOR(S) GZA FILE NO: RIT 0108 -0928 V45 LOCATION PROJECT 09Z8 **V**43 C Methane, Ethane, Ethene Hq D A-Air S-Soil GW-Ground W. SW-Sarlace W. WW-Wase W. DW-Drinking W. P-Product . Oils GZA-GEOENVIRONMENTAL, INC. ESS ARS ₹ ≹ ⋛ PRESERVATIVE (CI-RCI, M-Methand, N-HNO3, S-H2SO4, NA-NAOH, O-Other)* P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other) 106 South Street Hopkinton, MA 01748 508-435-9244 FAX 508-435-9912 Michelle Mirenda 10/19/11 @ 0915 10/19/11 @ 0830 10/19/11 @ 0830 Date/Time Sampled CHAIN-OF-CUSTODY RECORD 8 1400 Project Manager. Ourfall 001-10-12-11-Comp-2 Outfall 001-10-19-11-Grab-3A Outfall 001-10-19-11-Grab-3 Sample 1.D.

Page 10 of 10

CNUsertNgalinde/DesktoplESS COCNFall Scari-Ann.ESS.COC.xlsx

3 S

Client:	GZA GeoEnviror	nmental, Inc.	
Client P	roject ID:		
Shipped	l/Delivered Via:	ESS Courier	

ESS Project ID: 11100346
Date Project Due: 10/27/11
Days For Project: 5 Day

1. Air Bill Manifest Present?	* No] 10. Are the	samples proper	ly preserved?	Yes						
Air No.:		11. Proper	sample containe	rs used?	Yes						
2. Were Custody Seals Present?	No] 12. Any air	12. Any air bubbles in the VOA vials? N/A								
3. Were Custody Seals Intact?	N/A] 13. Holding	g times exceeded	l?	No						
4. Is Radiation count < 100 CPM?	Yes] 14. Sufficie	ent sample volum	nes?	Yes						
5. Is a cooler present?	Yes] 15. Any Su	bcontracting nee	eded?	No						
Cooler Temp: 3.3		16. Are ES	S labels on corre	ct containers?	YesiNo						
Iced With: Icepacks		17. Were s	amples received	intact?	Yes No						
6. Was COC included with samples?	Yes	ESS Sample	ESS Sample IDs:								
7. Was COC signed and dated by client?	Yes	Sub Lab: _	Sub Lab:								
3. Does the COC match the sample	Yes	Analysis: _	Analysis:								
9. Is COC complete and correct?	Yes	TAT:	TAT:								
18. Was there need to call project manag		scuss status? I	f yes, please exp	lain.							
Who was called?:		By whor	n?								
Sample Number Properly Preser	ved Co	ntainer Type	# of Containers	Preservative							
1 Yes 2 Yes		L Glass L Plastic	2	HCL NP							
3 Yes		L Flastic	2/	HCL	٦						
Completed By:	Date/T	Time: 10,	12011		_						
Reviewed By:	Date/1	Гime: <i>l</i>	0/20/4								

CVI Jersky plindo Derklop VESS COCAVI nil Somi-Asm, ESS, COCAVISX

Note 6 Temp Blank Cooler Air Total No. of Cont. ပ္ (for lab use only) 1110-00124 GOS × SSJ × φ ٥ 9 EOC-1994 TEMP. OF COOLER EPA 300 CI CI INO3 CI SO4 SPLP - Specify Below LAB USE: P.O. NO. CTS - 2becity Below Fall Semi-Annual Monitoring Actals (List Below) SHEET W.O.# (CP 14 Metals (MA) Saugus, MA 8-A 🗆 E1-M44 🗅 21am S NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C) *Specify *Other* preservatives and container types in this space. VPH (MA DEP) 1116369 (MA DEP) TPH-GC w/FING. Approved by: TPH-GC (Mod. 8100) TASK NO: EPA 8081-Pest Report Method Blank and Laboratory Control Sample Results EDV 8083-PCBs ELA 625 WW SYOCE N8 🗆 V 🗅 HV4 🗆 0/28 V43 ESS LABS EDV 8330 ZAOC* TURNAROUND TIME: Standard Rush 04.0029242.00 109 D 003 MM AOC ENY RISH MAN ADCIMUMENT PA 524.2 DW VOC5 PA 8021-8020 Lix (BTEX) PA 8021- 8010 Lix (Chia.) #17 [mg -1208 Y43 COLLECTOR(S) GZA FILE NO: LOCATION #!T 0108 -0978 Vd PROJECT Eb**V** 8790 GC Methane, Ethane, Ethene Hq 🗆 きるつ A=Air S=Soll GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. (specify) ? ₩W PRESERVATIVE (CI.HCI, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other) GZA GEOENVIRONMENTAL, INC. CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)* 106 South Street Hopkinton, MA 01748 508-435-9244 FAX 508-435-9912 Michelle Mirenda 10/20/11 @ 0915 10/20/11 @ 0915 Date/Time Sampled CHAIN-OF-CUSTODY RECORD Project Manager:) (Outfall 801-10-19-11-Comp-3 Outfall 001-10-20-11-Grab-4 Sample 1.D.

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Client: GZA GeoEnviron Client Project ID:	mental, Inc.	ESS Project ID: Date Project Due:	
Shipped/Delivered Via:	ESS Courier	Days For Project:	

Completed By: Date/Time: U/U/U/U Reviewed By: Date/Time: /////////										
1 Yes 2 Yes		Plastic 2 NP Glass 2 H2SO4								
Sample Number Properly Pres	erved Cont	ainer Type # of Containers Preservative								
Who was called?:		By whom?								
										
8. Was there need to call project man	ager to disc	uss status? If yes, please explain.								
. Is COC complete and correct?	Yes	TAT:								
. Does the COC match the sample	Yes	Analysis:								
. Was COC signed and dated by client	? Yes	Sub Lab:								
. Was COC included with samples?	Yes	ESS Sample IDs:	_							
Iced With: Icepacks		17. Were samples received intact?	YesINo							
Cooler Temp: 5.1		16. Are ESS labels on correct containers?								
. Is a cooler present?	Yes	15. Any Subcontracting needed?	No							
. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes							
. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No							
. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A							
Air No.:		11. Proper sample containers used?	Yes							
. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?								

			Note								0	7										
			Total No. of Cont.	7	2							1000	7				67	Temp Blank Cooler Air				-
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11			FOG-1664		^		-	-				-		-			70		35	16		
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			Eby 300 CI O NO3 O SO4 Sbrb - Sbecity Below	-			+				-		+	+	-	j		LAB USE: STEMP, OF COOLER	B			- 1
		-	TCLP - Specify Below	-	-	\vdash	-	+-		-	+	\vdash	+	+	+	ļ.		00	1		İ	_
- 1			Metals (List Below)			\vdash		+	H	_	+		+	+	+			USE:	P.O. NO.			
W.O.#			MCP 14 Metals (MA)			-	-	+			_		+	+	+			LAB USE TEMP. OF	P.0	Semi-Annual Monitoring		-
*			Metals □ PPM-13 □ R-8					\top			+		+	+		<u> </u>		1/1		onite	4A	SHEET
	,		APH (MA DEP)													0		Ford		al M	Saugus, MA	, , , , , , , , , , , , , , , , , , ,
			EPH (MA DEP)												П	4 +/- 2°C)				nun	Saug	
		RED	TPH-GC w/FING.													4 4		11 1		mi-A	3,	
		EQUI	TPH-GC (Mod. 8100)													ted to		þ.		Sei		
		ANALYSIS REQUIRED	EPA 8081-Pest													samples have been refrigerated to ontainer types in this space. Control Sample Results		Approved by	ö			
		ALYS	Eby 8087-PCBs													spar soult		App.	TASK NO			
		AN N	EPA 625 WW SVOCs													this e Re		1.1	TAS			_
	ý		EPA 8270 C PAH C A C BN													otherwise noted, all samples have been refrige preservatives and container types in this space, ink and Laboratory Control Sample Results		11 W				5
			EPA 8270 SVOCs					1		_						es har typ		/ag				
			□ 601 □ 602 WW VOCs							_					Ц	ample		1	99			
			EPA 624 WW VOCs/MWRA									\perp	1	+	Ш	con con		(#\	04.0029242.00			
R		-	Eby 524.2 DW VOCs	_		-	_		\vdash	_			-		Н	s and		dard	.002			- 11
			EPA 8021- 8020 List (BTEX)		-	-	-			-	-	+	+	+	H	atives Labo		Stal	9			
			EPA 8021- 8010 List (Chlor.)	i		_									Ш	serve		ME				- 11
			EPA 8021- Full List			_										pres		IT 0			1	(S)
			EPA 8260- 8010 List								- 0-200					ther"		NOC	Š.		Z	OR(
			EPA 8260													y "O y		VAR	3ZA FILE NO.	ROJECT	OCATION	COLLECTOR(S)
		2	GC Methane, Ethane, Ethene	10.00												NOTES: (Unless otherwise noted, all "Specify "Other" preservatives and oc	di i	TURNAROUND TIME Standard RE	3ZA	'ROJ	,0C	JOC I
			Hq 🗖					Ì						\dagger	П	NOTES: (Unless otherwise noted, all samples have been refrig *Specify "Other" preservatives and container types in this space Report Method Blank and Laboratory Control Sample Results		-		-	-	
		-		-		+	+			- 1		+	+	+	H		7					
		Matrix	A=Arr S=Soil GW=Ground W. SW=Sutace W. WW=Waste W. DW=Drinking W. P=Product Other (specify)	WW	ww									H. O-Other) *		RECEIVED BY: RECEIVED BY: RECEIVED BY:			5			
	TODY RECORD	Date/Time Sampled		4/22/11 @ 0830	te 4/22/11 @ 0830									PRESERVATIVE (CI-HCl, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other)	CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*	DATESTIME DATESTIME 173. DATESTIME DATESTIME		ger. Michelle Mirenda	106 South Street	Hopkinton, MA 01748 508-435-9244 FAX 508-435-9912		
	CHAIN-OF-CUSTODY RECORD	Sample LD.		Outfall 001 Grab	Outfall 001 Composite									PRESERVATIVE (CI-HCI, N	CONTAINER TYPE (P-Plast	RELINGVISHED BY: RELINGVISHED BY: RELINGVISHED BY:		Project Manager.	5			MSENO

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Wheelabrator Saugus, Inc. Saugus, Inc.

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W.O. # 1104-00150 (for lab use only)

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ANALYSIS REQUIRED

Note # Total No. of Cont. Ferrip Blank Cooler Air ~ こってってつし 一つの名 20 BOD × SSI × ū EOC-1994 9 OF EPA 300 CI CI NO3 CI SO4 A. Ford . TEMP. OF COOLER SPLP - Specify Below TCLP - Specify Below P.O. NO. Metals (List Below) Semi-Annual Monitoring MCP 14 Metals (MA) SHEET Metals | PPM-13 | R-8 Saugus, MA VPH (MA DEP) NOTES. (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C)

*Specify "Other" preservatives and container types in this space.

*Report Method Blank and Laboratory Control Sample Results EPH (MA DEP) TPH-GC WFING TPH-GC (Mod. 8100) Approved by: EPA 8081-Pest TASK NO: Eby 8085-PCBs Eby 625 ww Svocs 3 EPA 8270 □ PAH □ A □ BN EPA 8270 SVOCs ☐ 901 ☐ 905 MM AOC® TURNAROUND TIME Standard Rush 04.0029242.00 EPA 624 WW VOCS/MWRA EPA 524.2 DW VOCs EPA 8021-8020 List (BTEX) EPA 8021-8010 List (Chlor.) SPA 8021-Full List COLLECTOR(S) GZA FILE NO: EbV 8500-8010 Fist LOCATION PROJECT EPA 8260 GC Methane, Ethane, Ethene Hd 🗆 Other A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. 11-25-H P≂Product (specify) Matrix WW WW ECEIVED BY RECEIVED BY RECEIVED BY PRESERVATIVE (CI-HCI, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other) * 3 GZA GEOENVIRONMENTAL, INC. G-Glass, V-Vial, T-Teflon, O-Other)* 106 South Street Hopkinton, MA 01748 508-435-9244 FAX 508-435-9912 Michelle Mirenda 300 4/21/11 @ 0830 4/21/11 @ 0830 Sampled Date/Time Project Manager: Outfall 001 Composite CONTAINER TYPE (P, Plastic Outfall 001 Grab Sample 1.D.

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CHAIN-OF-CUSTODY RECORD

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CHAIN-OF-CUSTODY RECORD

(for lab use only)

1104-00138

W.O.#

Note # Total No. of Cont. Temp Blank Cooler Air 7 のとど 46 8-34869 вор × してのご SSI Д TEMP. OF COOLER × СГ Ç FOG-1664 OF. Eby 300 🗆 Ci 🗆 NO3 🗖 SO4 2PLP - Specify Below ICLP - Specify Below P.O. NO. Metals (List Below) Semi-Annual Monitoring NCP 14 Metals (MA) SHEET Saugus, MA Metals 🛘 PPM-13 🗖 R-8 A. Ford VPH (MA DEP) NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C) *Specify "Other" preservatives and container types in this space. EPH (MA DEP) ANALYSIS REQUIRED TPH-GC WFING TPH-GC (Mod. 8100) Approved by: 1894-1808 A 4E TASK NO: Report Method Blank and Laboratory Control Sample Results EPA 8082-PCBs EPA 625 WW SVOCs J EPA 8270 □ PAH □ A □ BN EPA 8270 SVOCs □ 901 □ 905 MM AOC2 TURNAROUND TIME: Standard Rush 04.0029242.00 EPA 624 WW VOCSMWRA Eby 524.2 DW VOCs EPA 8021- 8020 List (BTEX) EPA 8021- 8010 List (Chlor.) EPA 8021- Full List COLLECTOR(S) GZA FILE NO: EPA 8260- 8010 List LOCATION PROJECT Eb¥ 8500 GC Methane, Ethane, Ethene Hd 🗅 Other A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. (specify) Matrix WW WW CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Tellon, Q-Other)*
REI, NOQUISHED BY: , DATE/TIME *7, 21, [| RECEIVED BY RECEIVED BY CEIVED BY PRESERVATIVE (CI-HCI, M-Methanol, N-HN03, S-H2SO4, Na-NaOH, O-Other) * P=Product GZA GEOENVIRONMENTAL, INC. 000 106 South Street Hopkinton, MA 01748 508-435-9244 FAX 508-435-9912 Michelle Mirenda 4/20/11 @ 0830 4/20/11 @ 0830 Date/Time Sampled Project Manager: Outfall 001 Composite Outfall 001 Grab ロントしょう Sample 1.D. 2 NEICVP1083E01 Appendix H Wheelabrator Saugus, Inc.

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Saugus, Inc.

1104-00120 (for lab use only)

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